



14637

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: )  
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OSTERLOH )  
 )  
SERIAL NO.: 10/763,434 )  
 )  
FILED: January 21, 2004 )  
 )  
FOR: APPARATUS FOR REMOVING TOXIC )  
MATERIAL FROM TOXIC WEAPON )  
PROJECTILES )

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DECLARATION OF DENTON L. ANDERSON

Special Program Law Office  
Office of Petitions  
Commissioner of Patents & Trademarks  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

I am an attorney, duly licensed to practice before the United States Patent & Trademark Office, and am a member of Sheldon & Mak, attorneys for the applicant.

The subject application provides an apparatus useful in the pacification of environmentally hazardous and ultra-hazardous materials from metallic components, such as disarmed military shells and warheads. Such hazardous and ultra-hazardous materials include high explosive, nerve gases, chemical warfare agents and other highly toxic materials. Dispersion of such

hazardous materials into the atmosphere or into lakes, rivers or aquifers could be extremely dangerous to all life forms.

The apparatus of the invention is specifically useful in the removal of toxic materials from a toxic weapon projectile having a casing, a burster well, a base and an ogive. The apparatus comprises a) a base, b) a projectile retaining container disposed on the base for accepting and retaining the ogive of a toxic weapon projectile, the projectile retaining container having a projectile retainer opening, a ram opening and a drain opening, c) a ram disposed on the base and extending upwards through the ram opening into the projectile retaining container, the ram including a ram head having one or more spray nozzles, the ram being extendible and retractable between (1) a retracted ram position wherein the ram is disposed proximate to the ram opening, and (2) an extended ram position wherein the ram is disposed distal to the ram opening, d) a projectile retainer opening seal for sealing the ogive of a toxic weapon projectile within the projectile retaining opening, and e) a ram opening seal for sealing the ram within the ram opening.

In operation, a toxic weapon projectile -- without fuse and explosive materials -- is disposed downwardly within the apparatus. The ram is then caused to push upwardly into the projectile whereby it crushes the burster well and thereby releases toxic material from within the projectile. The toxic material gravitates downwardly through the open lower end of the projectile and into the projectile retaining container (from where it is removed from the apparatus via a drain opening). The projectile is then caused to rotate about its longitudinal axis

while high pressure water, sprayed from ports within the ram, thoroughly rinses the interior of the projectile cavity. By this operation, most of the toxic material within the projectile is flushed out of the projectile and safely retained within the enclosed projectile retaining container for later pacification.

I declare under penalty of perjury that the foregoing is true and correct, and that if called to testify thereto, I could and would so testify. All of the statements made in this Declaration are personally known to me to be true, and any statements made on information and belief are believed to be true. I further declare that I understand that willful false statements and the like are punishable by fine or imprisonment or both (18 U.S.C. § 1001) and may jeopardize the validity of the application or any patent issuing thereon.

Executed this 4<sup>th</sup> day of November, 2004, at Pasadena, California.

A handwritten signature in cursive script, reading "Denton L. Anderson", is written over a horizontal line.

DENTON L. ANDERSON